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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/816,094	04/01/2004	Daniel James Branagan	NANO003U	9485	
32047	7590 04/12/2006		EXAMINER		
GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC			BAREFORD, KATHERINE A		
	COMMERICAL STREET ER, NH 03101		ART UNIT	PAPER NUMBER	
			1762		
			DATE MAILED: 04/12/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
` Office Action Summary		10/816,094		BRANAGAN, DANIEL JAMES				
		Examiner		Art Unit				
		Katherine A.	Bareford	1762				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed or	n .						
·		 ☐ This action is nor	n-final.					
3)□	· _							
·	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1-17 is/are pending in the appli	cation.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)□	6) Claim(s) is/are rejected.							
7)	Claim(s) is/are objected to.							
8)⊠	Claim(s) <u>1-17</u> are subject to restriction a	nd/or election requ	rement.					
Applicati	on Papers							
9)[The specification is objected to by the Ex	caminer.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
/-	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
3.☐ Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
	e of References Cited (PTO-892)		Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-tration Disclosure Statement(s) (PTO-1449 or PTO		Paper No(s)/Mail Da Notice of Informal P		O-152)			
Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-16, drawn to a method, classified in class 427, subclass 446.
 - II. Claim 17, drawn to a method, classified in class 427, subclass 446.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes
- of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different

inventions have different modes of operation, as Invention I requires the applied alloy

to develop a residual compressive stress not required by Invention II, and Invention II

requires the applied alloy to form a fracture toughness and hardness not required by

Invention I.

3. Because these inventions are independent or distinct for the reasons given above

and have acquired a separate status in the art because of their recognized divergent

subject matter, restriction for examination purposes as indicated is proper.

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Species

4. This application contains claims directed to the following patentably distinct species: In Invention I, two different sets of species are present. (a) different alloys are present (claims 7, 8 and 9) and (b) different methods of application are present (claims 10 and 11). The species are independent or distinct because as to the set of species (a) entirely different, non-overlapping alloys are required and as to the set of species (b) entirely different non-overlapping methods of application are required.

Applicant is required under 35 U.S.C. 121, if Invention I is elected, to elect a single disclosed species for prosecution on the merits from each of species sets (a) and (b) to which the claims shall be restricted if no generic claim is finally held to be allowable. For example, if Invention I is elected, applicant could elect claim 7 of species (a) and claim 10 of species (b). Currently, claims 1-6 and 1-16 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are

added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

5. A telephone call was not made to attorney S. Grossman to request an oral election to the above restriction requirement, because of the complexity of the restriction requirement with the election of inventions and species requirements as discussed above.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katherine A. Bareford whose telephone number is (571) 272-1413. The examiner can normally be reached on M-F(6:00-3:30) with the First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and for After Final communications.

Other inquiries can be directed to the Tech Center 1700 telephone number at (571) 272-1700.

Furthermore, information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KATHERINE BAREFORD PRIMARY EXAMINER